

Experiment Number: 678031

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2,6-Dimethyl morpholine

CAS Number: 141-91-3

Date Report Requested: 09/12/2018

Time Report Requested: 06:44:12

NTP Study Number:

678031

Study Result:

Negative

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Mutagenicity**G06: Ames Summary Data**Test Compound: 2,6-Dimethyl morpholine
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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	88 ± 11.8	91 ± 3.8	133 ± 9.4	165 ± 3.5	145 ± 9.2
100.0	96 ± 4.7	97 ± 3.0	108 ± 7.6	117 ± 10.1	115 ± 7.8
333.0	82 ± 4.3	99 ± 7.0	134 ± 10.8	142 ± 14.7	112 ± 4.8
1000.0	89 ± 5.7	98 ± 2.4	131 ± 3.5	156 ± 3.8	122 ± 5.9
3333.0	96 ± 6.8	111 ± 0.9	106 ± 3.2	131 ± 1.3	112 ± 2.3
10000.0	92 ± 4.6	90 ± 4.1	141 ± 7.7	161 ± 8.7	145 ± 7.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1627 ± 74.3	921 ± 154.0	1912 ± 43.5
Positive Control ³	355 ± 21.1	804 ± 22.3			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	162 ± 14.2
100.0	153 ± 13.7
333.0	139 ± 7.4
1000.0	139 ± 2.5
3333.0	147 ± 12.0
10000.0	172 ± 5.0
Trial Summary	Negative
Positive Control ²	2142 ± 29.8
Positive Control ³	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	4 ± 1.2	4 ± 1.9	4 ± 1.2	3 ± 1.2	3 ± 0.3
100.0	4 ± 1.0	6 ± 1.2	4 ± 0.6		
333.0	3 ± 0.6	5 ± 1.0	6 ± 1.3		
1000.0	6 ± 0.9	7 ± 1.8	5 ± 1.0		
3333.0	5 ± 0.9	6 ± 1.5	4 ± 0.9	3 ± 0.9	2 ± 0.3
6667.0				5 ± 2.5	2 ± 1.2
10000.0	7 ± 1.5	7 ± 2.1	21 ± 2.1	9 ± 1.3	3 ± 2.5
16667.0				3 ± 1.5	Toxic
33333.0				5 ± 1.5	Toxic
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control ²			228 ± 23.1	36 ± 2.3	69 ± 2.5
Positive Control ³	284 ± 38.2	1078 ± 22.2			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	10 ± 2.4	7 ± 2.2	5 ± 1.0
100.0	4 ± 0.7		
333.0	5 ± 1.0		
1000.0	6 ± 1.0		
3333.0	8 ± 1.7	5 ± 0.7	5 ± 0.6
6667.0		5 ± 1.5	3 ± 0.3
10000.0	24 ± 2.0	4 ± 0.7	3 ± 0.6
16667.0		2 ± 1.2	Toxic
33333.0		2 ± 1.5	1 ± 0.0
Trial Summary	Equivocal	Negative	Negative
Positive Control ²	182 ± 19.1	35 ± 6.4	68 ± 12.7
Positive Control ³			

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	3 ± 0.7	7 ± 1.3	7 ± 0.3	10 ± 2.4	5 ± 1.3
100.0	3 ± 0.9	5 ± 0.9	4 ± 0.6	7 ± 1.3	10 ± 1.2
333.0	2 ± 0.0	6 ± 1.0	5 ± 0.3	7 ± 0.6	7 ± 1.2
1000.0	4 ± 1.2	7 ± 0.7	6 ± 0.9	10 ± 1.2	3 ± 0.3
3333.0	4 ± 0.6	8 ± 1.3	5 ± 0.9	10 ± 2.7	9 ± 2.0
10000.0	1 ± 0.0	4 ± 1.5	4 ± 0.3	8 ± 1.0	6 ± 2.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			163 ± 1.5	54 ± 6.7	135 ± 35.8
Positive Control ⁴	508 ± 131.9	995 ± 53.3			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	10 ± 1.9
100.0	13 ± 2.6
333.0	12 ± 0.9
1000.0	7 ± 1.5
3333.0	14 ± 1.2
10000.0	12 ± 0.7
Trial Summary	Negative
Positive Control ²	288 ± 18.4
Positive Control ⁴	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	15 ± 2.4	16 ± 0.9	23 ± 3.3	22 ± 2.3	24 ± 2.2
100.0	10 ± 0.3	13 ± 2.3	23 ± 1.2	20 ± 1.2	22 ± 0.3
333.0	13 ± 2.6	14 ± 0.3	20 ± 4.1	23 ± 3.2	25 ± 3.2
1000.0	13 ± 1.8	16 ± 0.3	29 ± 2.3	21 ± 0.3	25 ± 2.3
3333.0	11 ± 2.9	22 ± 2.7	29 ± 2.0	22 ± 2.6	28 ± 1.2
10000.0	12 ± 1.8	11 ± 3.5	22 ± 0.9	25 ± 3.2	32 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1034 ± 102.7	391 ± 22.0	1798 ± 20.5
Positive Control ⁵	237 ± 8.6	294 ± 49.5			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	21 ± 3.6
100.0	18 ± 0.7
333.0	19 ± 2.0
1000.0	22 ± 2.6
3333.0	21 ± 2.0
10000.0	24 ± 1.8
Trial Summary	Negative
Positive Control ²	1657 ± 34.2
Positive Control ⁵	

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LEGEND

Values given as Mean or Mean \pm Standard Error Mean

The number of samples = 3, unless samples marked toxic or contaminated were excluded from mean and SEM calculations

CAS Number = Chemical Abstracts Service registry number

1: Vehicle Control: Water

2: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 33.0 ug/Plate 9-Aminoacridine

5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****